

LISTING OF THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-11. (Cancelled)

12. (Previously Presented) A communication device comprising:

a signal splitter that decomposes an input signal into a plurality of replica signals, each of the plurality of replica signals being substantial replicas of the input signal scaled in amplitude and having a sum that is approximately equal to the input signal, such that each of the plurality of replica signals has a maximum peak value below the maximum peak value of the input signal;

a signal combiner that sequentially orders the plurality of replica signals for transmission;
and

a power amplifier that amplifies the sequentially ordered plurality of replica signals to provide a transmission signal.

13. (Previously Presented) The transmitter of claim 12, the signal combiner combines an instruction signal with the plurality of replica signals, the instruction signal informs a receiver of at least one of the number of replica signals and an amplitude scaling associated with the replica signals.

14. (Currently Amended) A communication system comprising:

~~means for modifying an input signal to provide a modified input signal having reduced peak values;~~

means for decomposing an input signal into a plurality of replica signals that are each substantial replicas of the input signal scaled in amplitude and having a sum that is approximately equal to the input signal, such that each of the plurality of replica signals has a maximum peak value below the maximum peak value of the input signal;

means for sequentially ordering the plurality of replica signals as a modified input signal;

means for generating an instruction signal associated with reconstructing the input signal to its original form prior to modification;

means for transmitting a transmission signal that includes the modified input signal and the instruction signal transmitted in a parallel relationship, such that the instruction signal is transmitted concurrently with the modified input signal;

means for receiving the transmission signal; and

means for reconstructing the input signal to its original form from the modified input signal prior to modification employing the instruction signal that was transmitted in the parallel relationship with the modified input signal.

15. (Original) The system of claim 14, further comprising means for combining the modified input signal and the instruction signal into the transmission signal.

16-19. (Cancelled)

20. (Previously Presented) A method of transmitting a signal in a communication system comprising:

modifying an input signal into a plurality of replica signals, each of the plurality of replica signals being substantial replicas of the input signal scaled in amplitude and having a sum that is approximately equal to the input signal, such that each of the plurality of replica signals has a peak value below the maximum peak value of the input signal;

sequentially ordering the plurality of replica signals into a transmission signal;

converting the transmission signal from the digital domain to the analog domain;

amplifying the transmission signal; and

transmitting the transmission signal.

21. (Previously Presented) The method of claim 20, further comprising reconstructing the plurality of replica signals into the input signal in its original form prior to modification.

22-29. (Cancelled)

30. (Previously Presented) The communication device of claim 12, wherein a known instruction code associated with reconstructing the input signal to its original form prior to modification resides at a receiver that receives the plurality of replica signals, such that the receiver is configured to reconstruct the input signal to its original form prior to modification based on the known instruction code.

31. (Previously Presented) The communication device of claim 13, wherein the instruction signal is configured as an orthogonal code that is combined with the sequentially ordered plurality of replica signals prior to transmission from the communication device.

32. (Previously Presented) The communication device of claim 13, wherein the sequentially ordered plurality of replica signals occupies a first frequency band and the instruction signal occupies at least one additional frequency band, the instruction signal and the sequentially ordered plurality of replica signals being transmitted substantially concurrently from the communication device.

33. (Previously Presented) The communication device of claim 13, wherein the instruction signal and the sequentially ordered plurality of replica signals are modulated in a time-division multiple access (TDMA) manner prior to transmission.

34. (Previously Presented) The communication device of claim 15, wherein the means for combining comprises means for modulating the instruction signal as an orthogonal code into the modified input signal prior to transmission from the communication device.

35. (Previously Presented) The communication device of claim 14, wherein the means for transmitting is configured to transmit the modified input signal at a first frequency band and to transmit the instruction signal at at least one additional frequency band substantially concurrently from the communication device.

36. (Previously Presented) The communication device of claim 15, wherein the means for combining comprises means for modulating the instruction signal into the modified input signal in a time-division multiple access (TDMA) manner prior to transmission.

37. (Previously Presented) The method of claim 21, further comprising modulating an instruction signal as an orthogonal code into the transmission signal prior to transmission, the instruction signal being employed by a receiver to reconstruct the input signal in its original form prior to modification.

38. (Previously Presented) The method of claim 21, further comprising transmitting the transmission signal at a first frequency band and transmitting an instruction signal at at least one additional frequency band substantially concurrently, the instruction signal being employed by a receiver to reconstruct the input signal in its original form prior to modification.

39. (Previously Presented) The method of claim 21, further comprising modulating an instruction signal into the transmission signal in a time-division multiple access (TDMA) manner prior to transmission, the instruction signal being employed by a receiver to reconstruct the input signal in its original form prior to modification.

40. (Previously Presented) The method of claim 21, wherein reconstructing the plurality of replica signals into the input signal comprises reconstructing the plurality of replica signals into the input signal in its original form prior to modification based on a known instruction code

associated with reconstructing the input signal to its original form that resides at a receiver that receives the plurality of replica signals.